

RAW SEQUENCE LISTING

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Application Serial Number: 101698, 907
Source: FFWO
Date Processed by STIC: 11-10-04

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IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/698,907

DATE: 11/10/2004
TIME: 10:06:28

Input Set : A:\21882-529-UTIL.txt
Output Set: N:\CRF4\11102004\J698907.raw

3 <110> APPLICANT: Frisen, Jonas
 4 Holmberg, Johan
 6 <120> TITLE OF INVENTION: Use of Ephrins and Related Molecules to Regulate Cellular
 7 Proliferation
 9 <130> FILE REFERENCE: 21882-529 UTIL
 11 <140> CURRENT APPLICATION NUMBER: 10/698,907
 12 <141> CURRENT FILING DATE: 2003-10-31
 14 <150> PRIOR APPLICATION NUMBER: US 60/460,488
 15 <151> PRIOR FILING DATE: 2003-04-03
 17 <150> PRIOR APPLICATION NUMBER: US 10/291,290
 18 <151> PRIOR FILING DATE: 2002-11-08
 20 <150> PRIOR APPLICATION NUMBER: US 60/393,272
 21 <151> PRIOR FILING DATE: 2002-07-02
 23 <150> PRIOR APPLICATION NUMBER: US 60/345,206
 24 <151> PRIOR FILING DATE: 2001-11-09
 26 <160> NUMBER OF SEQ ID NOS: 25
 28 <170> SOFTWARE: PatentIn version 3.2
 30 <210> SEQ ID NO: 1
 31 <211> LENGTH: 205
 32 <212> TYPE: PRT
 33 <213> ORGANISM: Mus musculus
 35 <400> SEQUENCE: 1
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 41 Ala Ala Asp Arg His Ile Val Phe Trp Asn Ser Ser Asn Pro Lys Phe
 42 20 25 30
 45 Arg Glu Glu Asp Tyr Thr Val His Val Gln Leu Asn Asp Tyr Leu Asp
 46 35 40 45
 49 Ile Ile Cys Pro His Tyr Glu Asp Asp Ser Val Ala Asp Ala Ala Met
 50 50 55 60
 53 Glu Arg Tyr Thr Leu Tyr Met Val Glu His Gln Glu Tyr Val Ala Cys
 54 65 70 75 80
 57 Gln Pro Gln Ser Lys Asp Gln Val Arg Trp Asn Cys Asn Arg Pro Ser
 58 85 90 95
 61 Ala Lys His Gly Pro Glu Lys Leu Ser Val Lys Phe Gln Arg Phe Thr
 62 100 105 110
 65 Pro Phe Ile Leu Gly Lys Glu Phe Lys Glu Gly His Ser Tyr Tyr Tyr
 66 115 120 125
 69 Ile Ser Lys Pro Ile Tyr His Gln Glu Ser Gln Cys Leu Lys Leu Lys
 70 130 135 140
 73 Val Thr Val Asn Gly Lys Ile Thr His Asn Pro Gln Ala His Val Asn
 74 145 150 155 160
 77 Pro Gln Glu Lys Arg Leu Gln Ala Asp Asp Pro Glu Val Gln Val Leu

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78	165	170	175
81	His Ser Ile Gly Tyr Ser Ala Ala Pro Arg Leu Phe Pro Leu Val Trp		
82	180	185	190
85	Ala Val Leu Leu Leu Pro Leu Leu Leu Gln Ser Gln		
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91	<212> TYPE: PRT		
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94	<400> SEQUENCE: 2		
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101	20 25 30		
104	Tyr Ala Val Tyr Trp Asn Arg Ser Asn Pro Arg Phe Gln Val Ser Ala		
105	35 40 45		
108	Val Gly Asp Gly Gly Tyr Thr Val Glu Val Ser Ile Asn Asp Tyr		
109	50 55 60		
112	Leu Asp Ile Tyr Cys Pro His Tyr Gly Ala Pro Leu Pro Pro Ala Glu		
113	65 70 75 80		
116	Arg Met Glu Arg Tyr Ile Leu Tyr Met Val Asn Gly Glu Gly His Ala		
117	85 90 95		
120	Ser Cys Asp His Arg Gln Arg Gly Phe Lys Arg Trp Glu Cys Asn Arg		
121	100 105 110		
124	Pro Ala Ala Pro Gly Gly Pro Leu Lys Phe Ser Glu Lys Phe Gln Leu		
125	115 120 125		
128	Phe Thr Pro Phe Ser Leu Gly Phe Glu Phe Arg Pro Gly His Glu Tyr		
129	130 135 140		
132	Tyr Tyr Ile Ser Ala Thr Pro Pro Asn Leu Val Asp Arg Pro Cys Leu		
133	145 150 155 160		
136	Arg Leu Lys Val Tyr Val Arg Pro Thr Asn Glu Thr Leu Tyr Glu Ala		
137	165 170 175		
140	Pro Glu Pro Ile Phe Thr Ser Asn Ser Ser Cys Ser Gly Leu Gly Gly		
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153	<211> LENGTH: 230		
154	<212> TYPE: PRT		
155	<213> ORGANISM: Mus musculus		
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164	20 25 30		
167	His Ala Val Tyr Trp Asn Ser Ser Asn Gln His Leu Arg Arg Glu Gly		
168	35 40 45		
171	Tyr Thr Val Gln Val Asn Val Asn Asp Tyr Leu Asp Ile Tyr Cys Pro		

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172	50	55	60														
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176	65					70			75			80					
179	Tyr	Met	Val	Asn	Leu	Ser	Gly	Tyr	Arg	Thr	Cys	Asn	Ala	Ser	Gln	Gly	
180						85			90			95					
183	Ser	Lys	Arg	Trp	Glu	Cys	Asn	Arg	Gln	His	Ala	Ser	His	Ser	Pro	Ile	
184					100			105			110						
187	Lys	Phe	Ser	Glu	Lys	Phe	Gln	Arg	Tyr	Ser	Ala	Phe	Ser	Leu	Gly	Tyr	
188						115			120			125					
191	Glu	Phe	His	Ala	Gly	Gln	Glu	Tyr	Tyr	Ile	Ser	Thr	Pro	Thr	His		
192						130			135			140					
195	Asn	Leu	His	Trp	Lys	Cys	Leu	Arg	Met	Lys	Val	Phe	Val	Cys	Cys	Ala	
196	145					150				155			160				
199	Ser	Thr	Ser	His	Ser	Gly	Glu	Lys	Pro	Val	Pro	Thr	Leu	Pro	Gln	Phe	
200						165			170			175					
203	Thr	Met	Gly	Pro	Asn	Val	Lys	Ile	Asn	Val	Leu	Glu	Asp	Phe	Glu	Gly	
204						180			185			190					
207	Glu	Asn	Pro	Gln	Val	Pro	Lys	Leu	Glu	Lys	Ser	Ile	Ser	Gly	Thr	Ser	
208						195			200			205					
211	Pro	Lys	Arg	Glu	His	Leu	Pro	Leu	Ala	Val	Gly	Ile	Ala	Phe	Phe	Leu	
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230	Gly	Ser	Arg	Leu	Pro	Gly	Cys	Ser	Ser	Leu	Arg	His	Pro	Ile	Tyr	Trp	
231						20			25			30					
234	Asn	Ser	Ser	Asn	Pro	Arg	Leu	Leu	Arg	Gly	Asp	Ala	Val	Val	Glu	Leu	
235						35			40			45					
238	Gly	Phe	Asn	Asp	Tyr	Leu	Asp	Ile	Phe	Cys	Pro	His	Tyr	Glu	Ser	Pro	
239						50			55			60					
242	Gly	Pro	Pro	Glu	Gly	Pro	Glu	Thr	Phe	Ala	Leu	Tyr	Met	Val	Asp	Trp	
243	65					70			75			80					
246	Ser	Gly	Tyr	Glu	Ala	Cys	Thr	Ala	Glu	Gly	Ala	Asn	Ala	Phe	Gln	Arg	
247						85			90			95					
250	Trp	Asn	Cys	Ser	Met	Pro	Phe	Ala	Pro	Phe	Ser	Pro	Val	Arg	Phe	Ser	
251						100			105			110					
254	Glu	Lys	Ile	Gln	Arg	Tyr	Thr	Pro	Phe	Pro	Leu	Gly	Phe	Glu	Phe	Leu	
255						115			120			125					
258	Pro	Gly	Glu	Thr	Tyr	Tyr	Ile	Ser	Val	Pro	Thr	Pro	Glu	Ser	Pro		
259						130			135			140					
262	Gly	Arg	Cys	Leu	Arg	Leu	Gln	Val	Ser	Val	Cys	Cys	Lys	Glu	Ser	Gly	
263	145					150					155			160			
266	Ser	Ser	His	Glu	Ser	Ala	His	Pro	Val	Gly	Ser	Pro	Gly	Glu	Ser	Gly	

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267 165 170 175
 270 Thr Ser Gly Trp Arg Gly Gly His Ala Pro Ser Pro Leu Cys Leu Leu
 271 180 185 190
 274 Leu Leu Leu Leu Leu Pro Ile Leu Arg Leu Leu Arg Val Leu
 275 195 200 205
 278 <210> SEQ ID NO: 5
 279 <211> LENGTH: 228
 280 <212> TYPE: PRT
 281 <213> ORGANISM: Mus musculus
 283 <400> SEQUENCE: 5
 285 Met Leu His Val Glu Met Leu Thr Leu Leu Phe Leu Val Leu Trp Met
 286 1 5 10 15
 289 Cys Val Phe Ser Gln Asp Pro Gly Ser Lys Val Val Ala Asp Arg Tyr
 290 20 25 30
 293 Ala Val Tyr Trp Asn Ser Ser Asn Pro Arg Phe Gln Arg Gly Asp Tyr
 294 35 40 45
 297 His Ile Asp Val Cys Ile Asn Asp Tyr Leu Asp Val Phe Cys Pro His
 298 50 55 60
 301 Tyr Glu Asp Ser Val Pro Glu Asp Lys Thr Glu Arg Tyr Val Leu Tyr
 302 65 70 75 80
 305 Met Val Asn Phe Asp Gly Tyr Ser Ala Cys Asp His Thr Ser Lys Gly
 306 85 90 95
 309 Phe Lys Arg Trp Glu Cys Asn Arg Pro His Ser Pro Asn Gly Pro Leu
 310 100 105 110
 313 Lys Phe Ser Glu Lys Phe Gln Leu Phe Thr Pro Phe Ser Leu Gly Phe
 314 115 120 125
 317 Glu Phe Arg Pro Gly Arg Glu Tyr Phe Tyr Ile Ser Ser Ala Ile Pro
 318 130 135 140
 321 Asp Asn Gly Arg Arg Ser Cys Leu Lys Leu Lys Val Phe Val Arg Pro
 322 145 150 155 160
 325 Thr Asn Ser Cys Met Lys Thr Ile Gly Val His Asp Arg Val Phe Asp
 326 165 170 175
 329 Val Asn Asp Lys Val Glu Asn Ser Leu Glu Pro Ala Asp Asp Thr Val
 330 180 185 190
 333 His Glu Ser Ala Glu Pro Ser Arg Gly Glu Asn Ala Ala Gln Thr Pro
 334 195 200 205
 337 Arg Ile Pro Ser Arg Leu Leu Ala Ile Leu Leu Phe Leu Leu Ala Met
 338 210 215 220
 341 Leu Leu Thr Leu
 342 225
 345 <210> SEQ ID NO: 6
 346 <211> LENGTH: 345
 347 <212> TYPE: PRT
 348 <213> ORGANISM: Mus musculus
 350 <400> SEQUENCE: 6
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 353 1 5 10 15
 356 Val Val Leu Thr Leu Cys Arg Leu Ala Thr Pro Leu Ala Lys Asn Leu
 357 20 25 30

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360 Glu Pro Val Ser Trp Ser Ser Leu Asn Pro Lys Phe Leu Ser Gly Lys
 361 35 40 45
 364 Gly Leu Val Ile Tyr Pro Lys Ile Gly Asp Lys Leu Asp Ile Ile Cys
 365 50 55 60
 368 Pro Arg Ala Glu Ala Gly Arg Pro Tyr Glu Tyr Tyr Lys Leu Tyr Leu
 369 65 70 75 80
 372 Val Arg Pro Glu Gln Ala Ala Ala Cys Ser Thr Val Leu Asp Pro Asn
 373 85 90 95
 376 Val Leu Val Thr Cys Asn Lys Pro His Gln Glu Ile Arg Phe Thr Ile
 377 100 105 110
 380 Lys Phe Gln Glu Phe Ser Pro Asn Tyr Met Gly Leu Glu Phe Lys Lys
 381 115 120 125
 384 Tyr His Asp Tyr Tyr Ile Thr Ser Thr Ser Asn Gly Ser Leu Glu Gly
 385 130 135 140
 388 Leu Glu Asn Arg Glu Gly Val Cys Arg Thr Arg Thr Met Lys Ile
 389 145 150 155 160
 392 Val Met Lys Val Gly Gln Asp Pro Asn Ala Val Thr Pro Glu Gln Leu
 393 165 170 175
 396 Thr Thr Ser Arg Pro Ser Lys Glu Ser Asp Asn Thr Val Lys Thr Ala
 397 180 185 190
 400 Thr Gln Ala Pro Gly Arg Gly Ser Gln Gly Asp Ser Asp Gly Lys His
 401 195 200 205
 404 Glu Thr Val Asn Gln Glu Glu Lys Ser Gly Pro Gly Ala Gly Gly
 405 210 215 220
 408 Gly Ser Gly Asp Ser Asp Ser Phe Phe Asn Ser Lys Val Ala Leu Phe
 409 225 230 235 240
 412 Ala Ala Val Gly Ala Gly Cys Val Ile Phe Leu Leu Ile Ile Ile Phe
 413 245 250 255
 416 Leu Thr Val Leu Leu Leu Lys Leu Arg Lys Arg His Arg Lys His Thr
 417 260 265 270
 420 Gln Gln Arg Ala Ala Ala Leu Ser Leu Ser Thr Leu Ala Ser Pro Lys
 421 275 280 285
 424 Gly Gly Ser Gly Thr Ala Gly Thr Glu Pro Ser Asp Ile Ile Ile Pro
 425 290 295 300
 428 Leu Arg Thr Thr Glu Asn Asn Tyr Cys Pro His Tyr Glu Lys Val Ser
 429 305 310 315 320
 432 Gly Asp Tyr Gly His Pro Val Tyr Ile Val Gln Glu Met Pro Pro Gln
 433 325 330 335
 436 Ser Pro Ala Asn Ile Tyr Tyr Lys Val
 437 340 345
 440 <210> SEQ ID NO: 7
 441 <211> LENGTH: 336
 442 <212> TYPE: PRT
 443 <213> ORGANISM: Mus musculus
 445 <400> SEQUENCE: 7
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 448 1 5 10 15
 451 Gly Leu Leu Met Val Leu Cys Arg Thr Ala Ile Ser Arg Ser Ile Val
 452 20 25 30

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/10/2004
PATENT APPLICATION: US/10/698,907 TIME: 10:06:29

Input Set : A:\21882-529-UTIL.txt
Output Set: N:\CRF4\11102004\J698907.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:17

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/698,907

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